

CLAIMS

1. A lighting apparatus including main light reflective means and a plurality of light-emitting sources which are adapted for producing light beams generally along a prescribed direction, said main light reflective means including a main
5 light reflective surface which is adapted for reflecting light emanating from at least one of said light-emitting sources towards said general prescribed direction, at least some of said plurality of light-emitting sources being disposed outside said main light reflective surface of said main light reflective means and including individual reflective means for reflecting light from the
10 individual light-emitting sources which are disposed outside said light reflective means along said general prescribed direction.
2. A lighting apparatus according to claim 1, wherein said plurality of light-emitting sources including incandescent and light-emitting-diode light sources, at least one incandescent light source being disposed inside said main
15 reflective means and surrounded by said main light reflective surface, and a plurality of light-emitting diodes being disposed outside and surrounding said main light reflective surface.
3. A lighting apparatus according to claim 1, wherein said main light reflective surface having a generally parabolic shape, the axis of said paraboloid being
20 substantially parallel with said prescribed direction, a plurality of indentations for housing some of said plurality of light-emitting sources being distributed along the outer periphery of the expanded end of said parabolic shaped main reflective surface.

4. A lighting apparatus according to claim 3, wherein said plurality of indentations interrupt the substantially circular cross-section of said expanded end of said parabolic shaped main reflective surface and said indentation extends radially inwards from the said outer periphery of the expanded end of said main reflective surface towards the axis of the paraboloid.
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5. A lighting apparatus according to claim 4, wherein the longitudinal axis of said indentation also substantially parallel to the axis of the parabolic shaped main reflective surface and being adapted to house an light-emitting-diode so that the beam axis of said light-emitting-diode being substantially parallel to or converge towards the axis of said parabolic shaped main reflective surface.
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6. A lighting apparatus according to claim 3, wherein an incandescent light source being disposed at or near the focal point of said parabolic main reflective surface, and a plurality of light-emitting diodes being housed in said plurality of indentations, surrounding the outer periphery of said main reflective surface and axially away from said incandescent light source.
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7. A lighting apparatus according to claim 6, wherein said reflective surface and said indentations being integrally moulded as an unitary piece with said indentations evenly distributed around the circular outer rim of said parabolic main reflective surface.
- 20 8. A lighting apparatus according to claim 6, wherein said indentation including an axially extending channel for housing and aligning an light-emitting diode so that the light emitted from said light-emitting diode being substantially parallel to or converging towards the axis of said parabolic main reflective surface.

9. A lighting apparatus according to claim 8, further including an integral base member with a housing comprising a base and a plurality of axially extending receptacles, said axially extending receptacles being spatially distributed corresponding to said indentations on said main reflective surface and said
5 receptacles being adapted for receiving light-emitting diodes, said base member being adapted for receiving an incandescent light source and for coupling with said main light reflective means to form a modular sub-assembly comprising a plurality of incandescent and light-emitting diode light sources.
10. A lighting apparatus according to claim 6, wherein each said light-emitting
10 diode including a reflector for reflecting light generally along said prescribed direction.
11. A lighting apparatus according to claim 10, wherein said light-emitting diodes comprise groups of light-emitting diodes of different colours.
12. A lighting apparatus according to claim 10, wherein said indentation including
15 an arcuate surface, said arcuate surface being convex towards said prescribed direction and extends longitudinally parallel to said axis of said parabolic main reflective surface.
13. A lighting apparatus according to claim 12, said apparatus being a flashlight with a head portion and a handle portion, said main reflective means, said
20 light-emitting sources being disposed for light emission towards a transparent window disposed at said head portion.